

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

02 October 2012

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

**RE: Arkwood Monthly Sampling** 

SDG Number: 1209285

Enclosed are the results of analyses for samples received by the laboratory on 25-Sep-12 09:45. If you have any questions concerning this report, please feel free to contact me.

# Sample Receipt Information:

Custody Seals	~
Containers Correct	
COC/Labels Agree	<u> </u>
Preservation Confirmed	~
Received On Ice	
Temperature on Receipt	2.0°C

Sincerely,

Norma James President

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**Project: Arkwood Monthly Sampling** 

Date Received: 25-Sep-12 09:45



Sample Delivery Group - 1209285

Qualified Analytical and/or Quality Control Results are Discussed Below:

## **Semivolatiles Analysis:**

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.



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Overland Park, KS 66221

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Date Received: 25-Sep-12 09:45



Lab Number: 1209285-01
Sample Name: Mouth
Date/Time Collected: 9/24/12 14:54
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	73.2		9/27/12 16:43	A209318	8270D
2,4,6-Tribromophenol [surr]	%	98.7		9/27/12 16:43	A209318	8270D
2-Fluorophenol [surr]	%	58.9		9/27/12 16:43	A209318	8270D
Phenol-d5 [surr]	%	32.2		9/27/12 16:43	A209318	8270D

## **ANALYTICAL RESULTS**

Lab Number: 1209285-02
Sample Name: Weir
Date/Time Collected: 9/24/12 14:15
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	< 5.00		9/27/12 17:04	A209318	8270D
2,4,6-Tribromophenol [surr]	%	43.9		9/27/12 17:04	A209318	8270D
2-Fluorophenol [surr]	%	18.0		9/27/12 17:04	A209318	8270D
Phenol-d5 [surr]	%	13.7		9/27/12 17:04	A209318	8270D

Arkansas Analytical

Arkansas Analytical Inc.

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

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# **QUALITY CONTROL RESULTS**

#### Semivolatiles - Quality Control Analyzed: 27-Sep-12 15:18 By: TB

		,	P	12 13:10 1	.,					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A209318 - 3510C Modified										
Blank (A209318-BLK1)				Prepared:	25-Sep-12	Analyzed:	27-Sep-12			
Pentachlorophenol	ND	5.00	ug/L							
Surrogate: 2,4,6-Tribromophenol	38.9		"	40.0		97.2	19.3-113			
Surrogate: 2-Fluorophenol	24.0		"	40.0		60.0	<i>13-75.4</i>			
Surrogate: Phenol-d5	13.2		"	40.0		33.0	13.1-75.2			
LCS (A209318-BS1)				Prepared:	25-Sep-12	Analyzed:	27-Sep-12			
Pentachlorophenol	41.9	5.00	ug/L	40.0		105	48.5-124			
Surrogate: 2,4,6-Tribromophenol	41.8		"	40.0		105	19.3-113			
Surrogate: 2-Fluorophenol	22.9		"	40.0		<i>57.2</i>	13-75.4			
Surrogate: Phenol-d5	15.8		"	40.0		39.4	13.1-75.2			
Matrix Spike (A209318-MS1)	Sour	ce: 12092	85-01	Prepared:	25-Sep-12	Analyzed:	27-Sep-12			
Pentachlorophenol	154	10.0	ug/L	80.0	73.2	101	29.2-146			
Surrogate: 2,4,6-Tribromophenol	80.7		"	80.0		101	19.3-113			
Surrogate: 2-Fluorophenol	42.6		"	80.0		53.3	13-75.4			
Surrogate: Phenol-d5	29.9		"	80.0		37.4	13.1-75.2			
Matrix Spike Dup (A209318-MSD1)	Sour									
Pentachlorophenol	163	10.0	ug/L	80.0	73.2	112	29.2-146	5.95	25.6	
Surrogate: 2,4,6-Tribromophenol	81.5		"	80.0		102	19.3-113			
Surrogate: 2-Fluorophenol	40.8		"	80.0		51.0	13-75.4			
Surrogate: Phenol-d5	28.0		"	80.0		35.0	13.1-75.2			

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition. Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President

Arkansas Analytical

Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221 Project: Arkwood Monthly Sampling

Date Received: 25-Sep-12 09:45 CHAIN OF CUSTODY FORM(S)



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

# **CHAIN OF CUSTODY RECORD**

CLIENT INFORM	MATION	770		1	Project Desc	rintion	Turnaround Time				Pre	servati	on Code	s:					
Oxford Environmental & Safety, Inc.							Arkwood Monthly		24 Hour	1. Cool, 4 Degrees Centigrade					4. Thiosulfate for Dechlorination				
14348 Nieman Rd.					Arkwood Monthly Sampling			1			H <sub>2</sub> SO <sub>4</sub> ), pH			5. Hydrochloric Acid(HCl)					
Overland Park KS 66221						Reporting Information			3. Nitric	Acid (HN	√O₃), pH < 2	2		6. Sodium Hydroxide (NaOH), pH > 12					
						Telephone: 913-		Routine (5 Day)		1	TEST	PAR	AME				Bottle Type Code		
Attn: Jim Fleer						E	mail: jfleer@oxfor	deands.com	Preservative Code:	1								G = Glass; P = Plastic	
							WW		Bottle Type:	GA								/ = Septum; A = Amber	
Sampler(s) Signature Sampler(s) Prin					Fleer								5			11.	Arkansas nalytical Work Order Number:		
Field	SAMPLE C	OLLECTION			Number	Sample		SAMPLE		Pentachlorophenol (8270D)								langage-	
Number	Date/s	Time/s	Grab	Comp			IDENTIF	CATION/ DESC	RIPTION	8. 8.					ļ		_	209285	
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1. Relinquished by	/: (Signature)	Date/Time		2. Re	ceived	by: (Si	gnature)	SAMPLE C	ONDITION UPON F		REMARKS / SAMPLE COMMENTS								
V (	7/1	9/24/201	2			1. CUSTODY SEALS:					N	MS	MSD C	ollecte	d from:	Mourh			
Jam !	you	16:30		١	IF	25				1							_	nouth	
		10.50			MI			2. CONTAINERS	CORRECT:	Yes	N	°   03	Awer	- 10	0			1 / CO	
				_				3. COC/LABELS	AGREE:	Yes	N	03	lone.	= 12.	2		pl	f=6.80	
3. Relinquished by: (Signature) Date/Time 4.			Received by lab: (Signature) 4.			4. PRESERVATION	ION CONFIRMED: Yes		N	· Re	03/100 1070 pt 03/000 = 12.0 pt 0es 03 > 2.56 ppm Tom			p=13.92°C					
V 12 (==		alarli	2	(	11				N ICE:YesNo		· 19	Planurate = 0.40 Do			Do	= 41.6%			
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12/1/10																			